LOGISTICS COMMAND AND CONTROL UPDATE

CSSE ADVOCACY BOARD

February 2005

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LM TTF

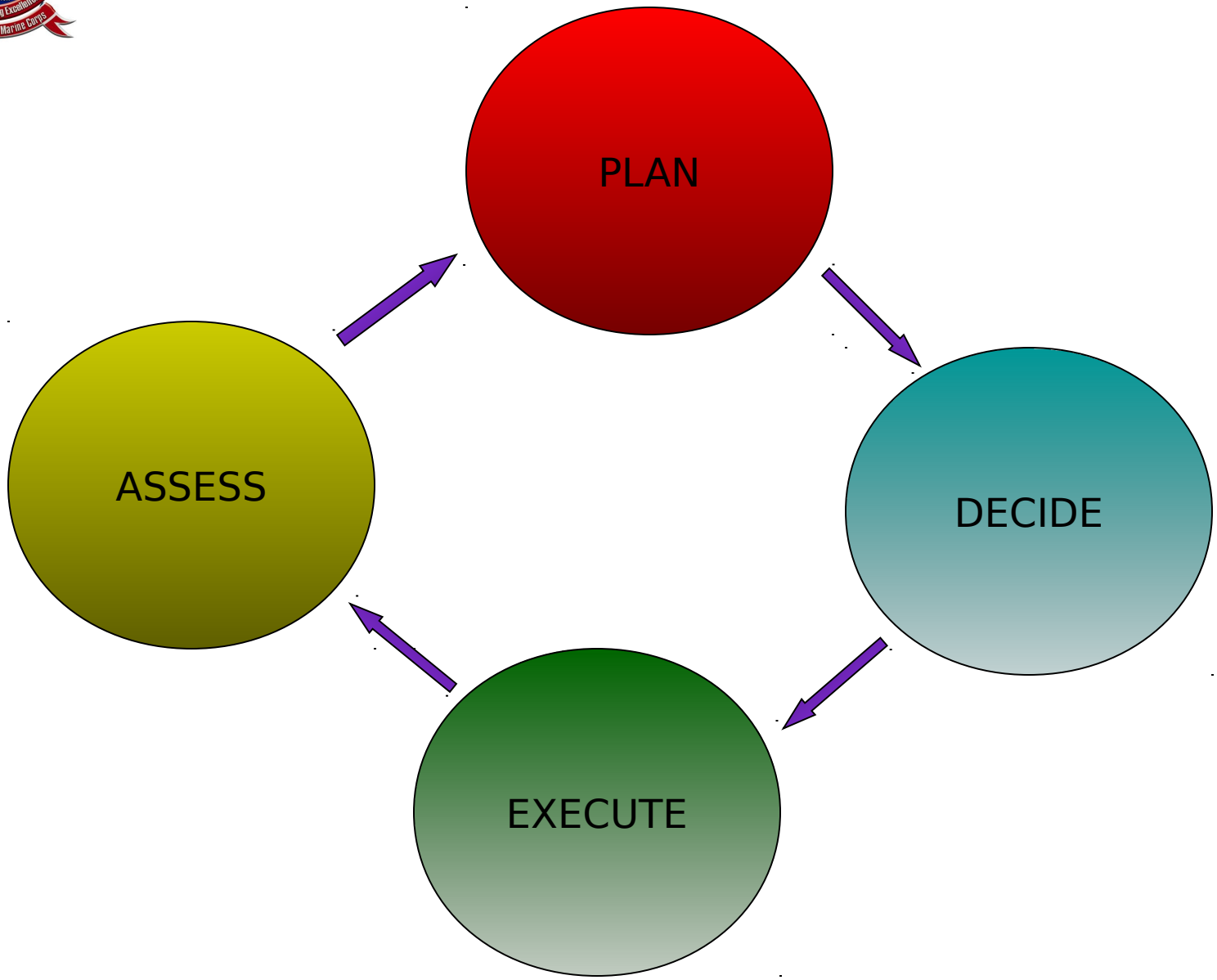
AGENDA

- What is Log C2
- C2 Process Loop
- Marine Definition of “End to End C2”
- Prioritizing C2 in Marine Corps
- Aligning C2 to Programs Of Record (POR)
- Getting Bandwidth Required to Support MAGTF Log C2
- Log C2 Way Ahead
- Key Takeaways

WHAT IS LOG C2

- Log C2 provides the means to extract operational utility/value from all the logistics data available, and place it within the context of the tactical situation. Relevant logistics information that supports the Commander's situational awareness and ability to operationally influence the battle.
- Log C2 begins during the planning phase.
- Log C2 is not a transactional level tool.

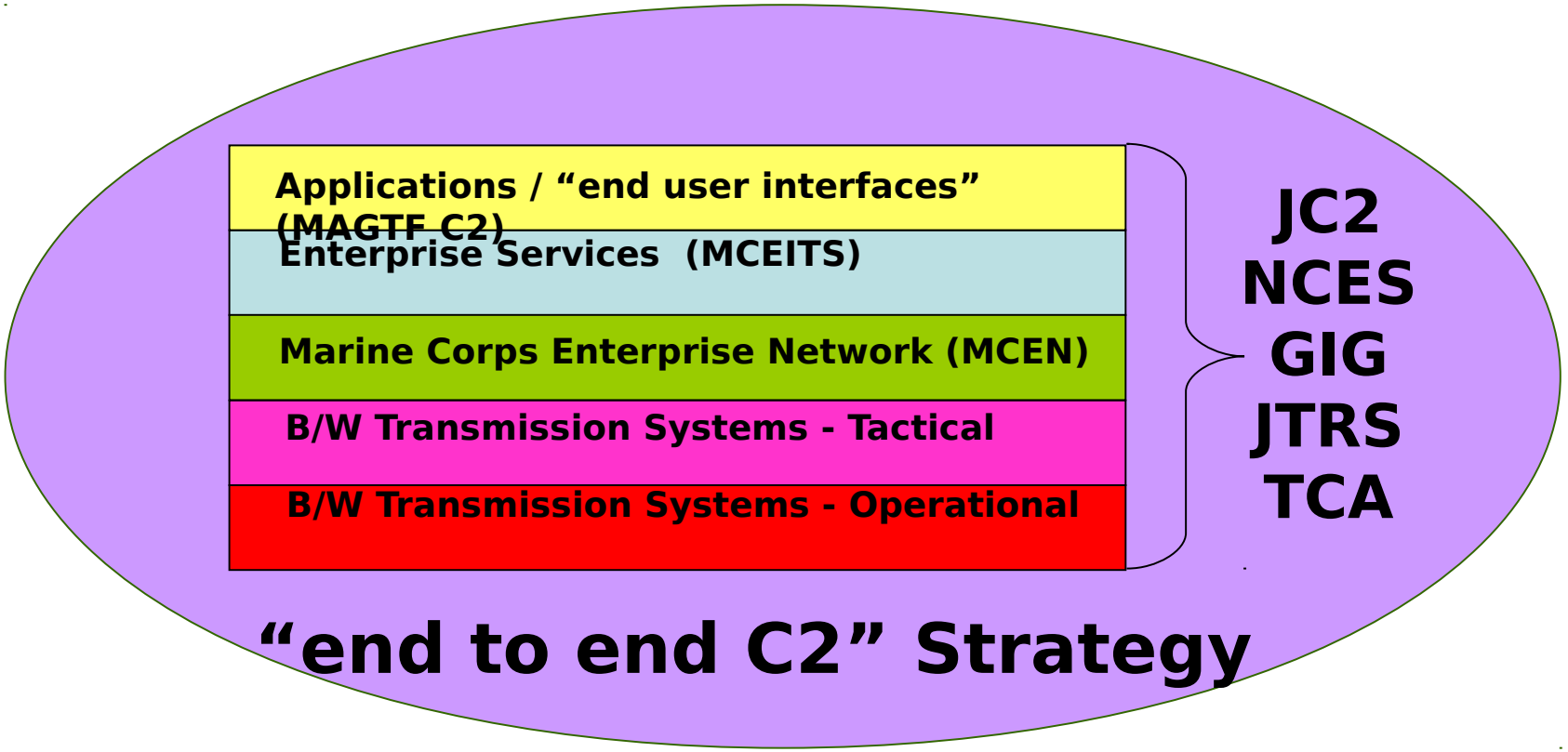
C2 PROCESS LOOP



Marine Corps Defined “End to End C2”

- Comprised of four fundamental elements:
  - Applications/End User Interfaces
  - Enterprise Services
  - Marine Corps Enterprise Network (MCEN)
  - Bandwidth (Tactical & SATCOM)
- Includes Cross-Functional Integration
- Spans strategic, operational, and tactical C2 requirements.

MAGTF C2 “END TO END”

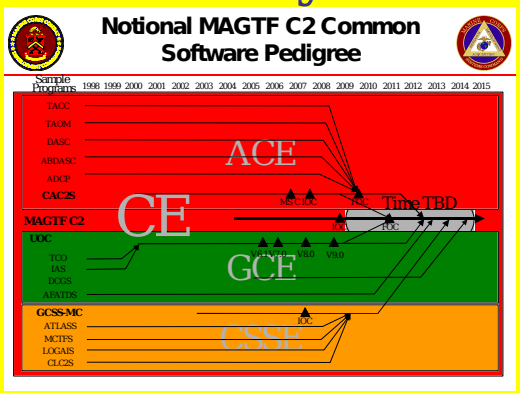


Strategic — Operational — Tactical

C2 Campaign Plan

"end to end C2"
Strategy

C2 System



Support Structure

Enterprise Services

Marine Corps Enterprise Network

Tactical Bandwidth

Operational Bandwidth

FORCEnet

JC2

Aligned Log PORs

Applications / "End-User Interfaces" (MAGTF C2)	Enterprise Services (MCEITS)	Digital Backbone Services	Bandwidth / Transmission System TACTICAL	Bandwidth / Transmission Systems OPERATIONAL
AFATDS AL ATLASS BCS3 BIG BOARD* C2PC CLC2S DACT IAS BFSA (FBCB2) GCCS MCHS MAGTF AIS ROLMS PKI	MCEITS NCES PKI SDE	BTI COMSEC DTC FICCS IA MITNOC NMCI PKI TDN TSM WCR	EPLRS VSAT/CASI CONDOR JTRS ECCS IISR	ECCS JCSE LC/ES LMST SHF TRI-BAND SHF-WIDEBAND SMART-T

MAGTF Log Long Range Data Comm (SATCOMM) Reqs

- Started w/ Congressional Interest in USMC's Logistics Data Communications Challenges during OIF-I
- Resulted in $3.9M PMC Plus-Up to Obtain Material Fix
  - **Near-Term Focus on Continuing OIF Iterations**
  - **Provides Robust Remote SATCOMM Capability for in-theater Forces (approx 11 suites)**
  - **MARCENT Assets**
- Leverages Very Small Aperture Terminal (VSAT) Technology
  - **Initially identified Army's CSS Automated Information System Interface (CAISI)/VSAT as preferred material solution**
  - **Extensive discussion w/ MARFOR G6's, PM Comm, and C4 have identified VSAT enabled Video and Storage Wide Area Network(VSWAN) as better enterprise solution**
- Reinforced with additional $14M Supplemental PMC and pending O&M to Support Larger USMC Needs
  - **Provides approx 10 suites/MEF, plus training suites for schools and MFR**
  - **Provides for sufficient airtime to operate approx 1/3 of assets simultaneously to permit near round the clock coverage for 365 days under normal operating conditions.**

Way Ahead

- Log C2 requirements are captured in GCSS-MC Program
- Engagement with MCCDC
  - **Logistics Doctrine**
  - **Bandwidth Study**
- Establish/Conduct Log C2 WIPT
  - **LM TTF**
  - **LMT / LPV-2**
  - **MCCDC / C4**
  - **MEF OAG**
  - **SE**
  - **SYSCOM (GCSS-MC, PM Ground C2, SE&I)**
- Develop and Prioritize Log C2 Requirements Matrix
- Test, Refine, Validate
  - **Automated C2 Process Loop (CSSOC OPS for RSO&I / UFL)**
  - **Transmission Systems (VSAT Capability OIF III)**
  - **Big Board**
  - **BCS3**
  - **FBCB2 (To include RFID efforts)**
- Synchronize efforts to produce MAGTF C2 that defines process and has supported T/O&E structure to enable effective employment

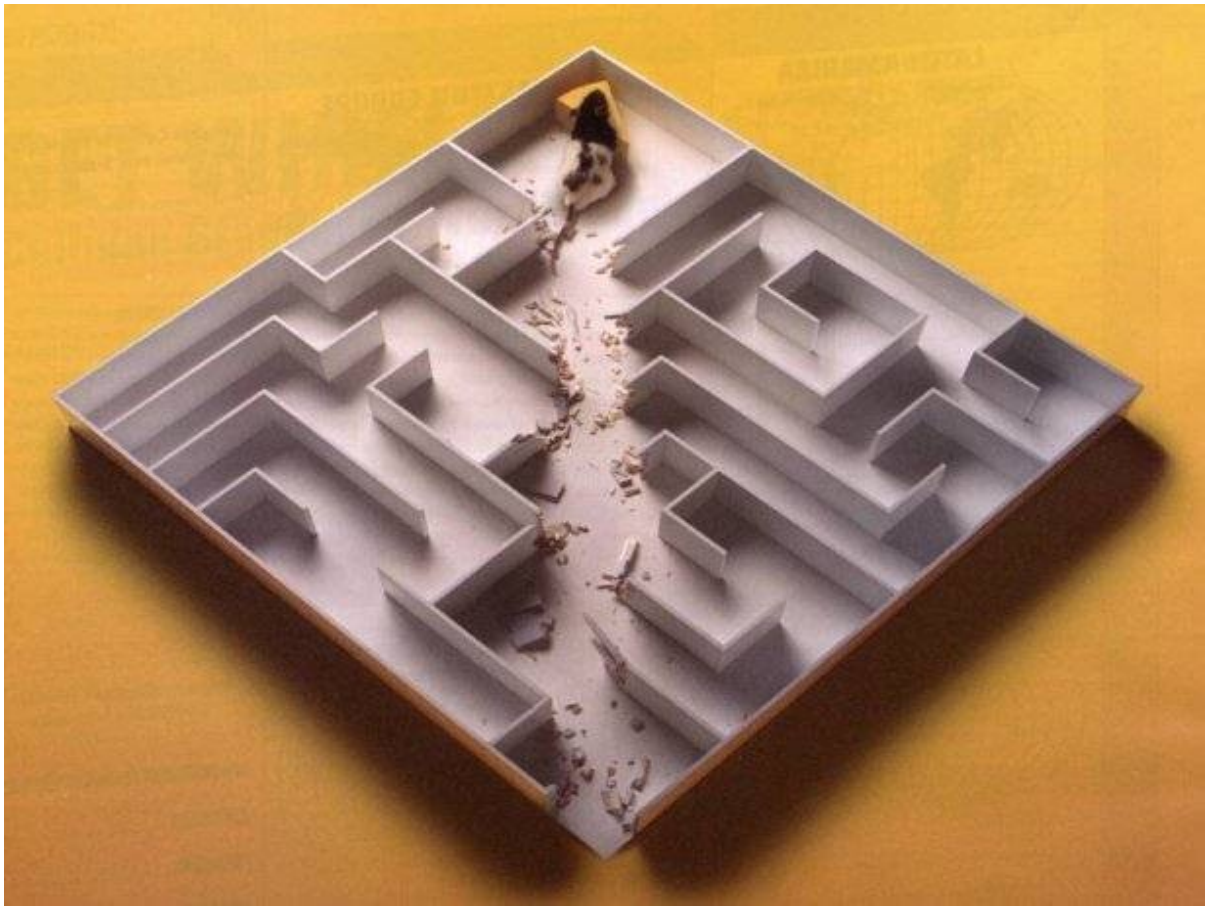
KEY TAKEAWAYS

- **Logistics C2 is just a piece of MAGTF C2, and can't be treated/handled separately**

- **Current MAGTF Logistics C2 capabilities being tested / evaluated throughout the USMC are bridges to GCSS-MC, which will house family of logistics systems.**

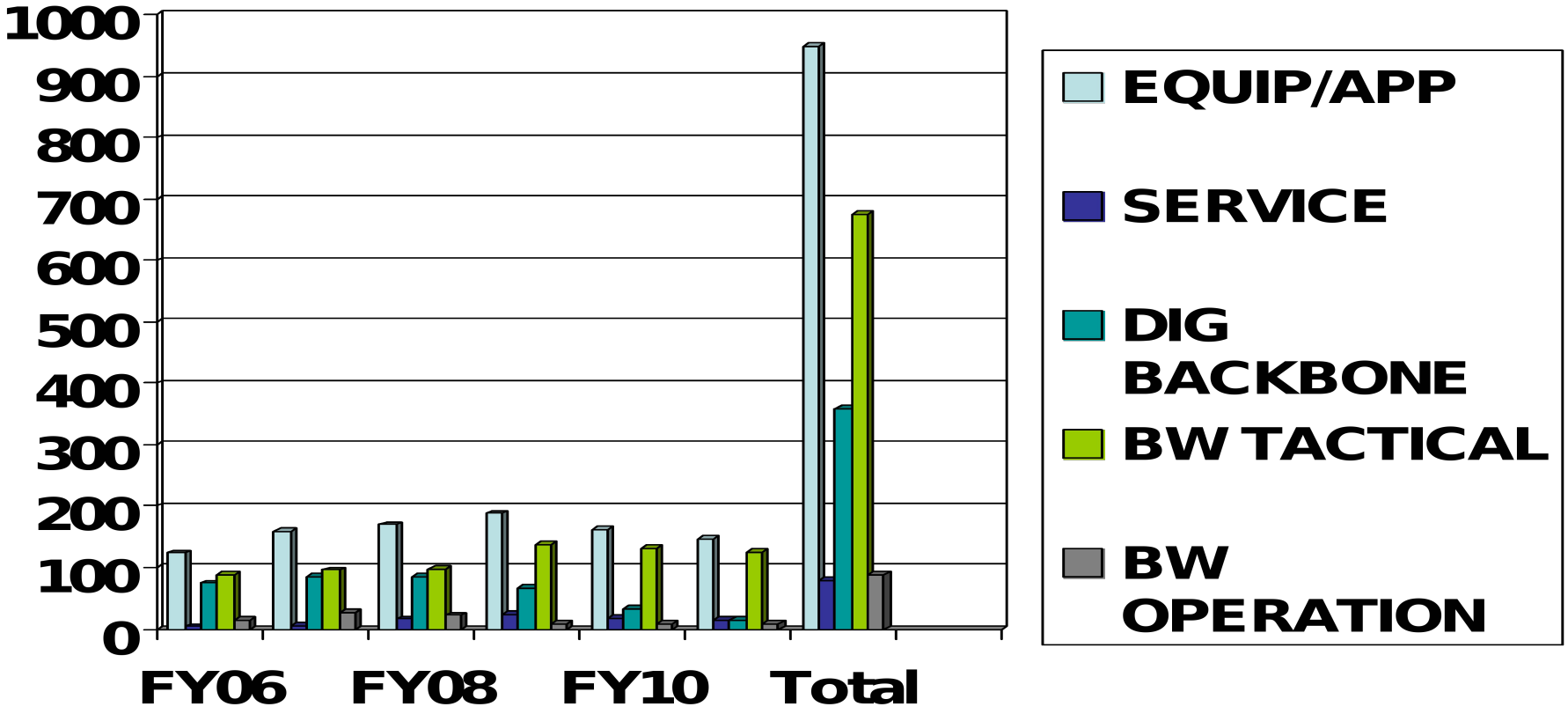
- **Near-term efforts are afoot to address long-standing long-range data communications deficiencies within CSSE in advance of fielding Block I, GCSS-MC.**

QUESTIONS

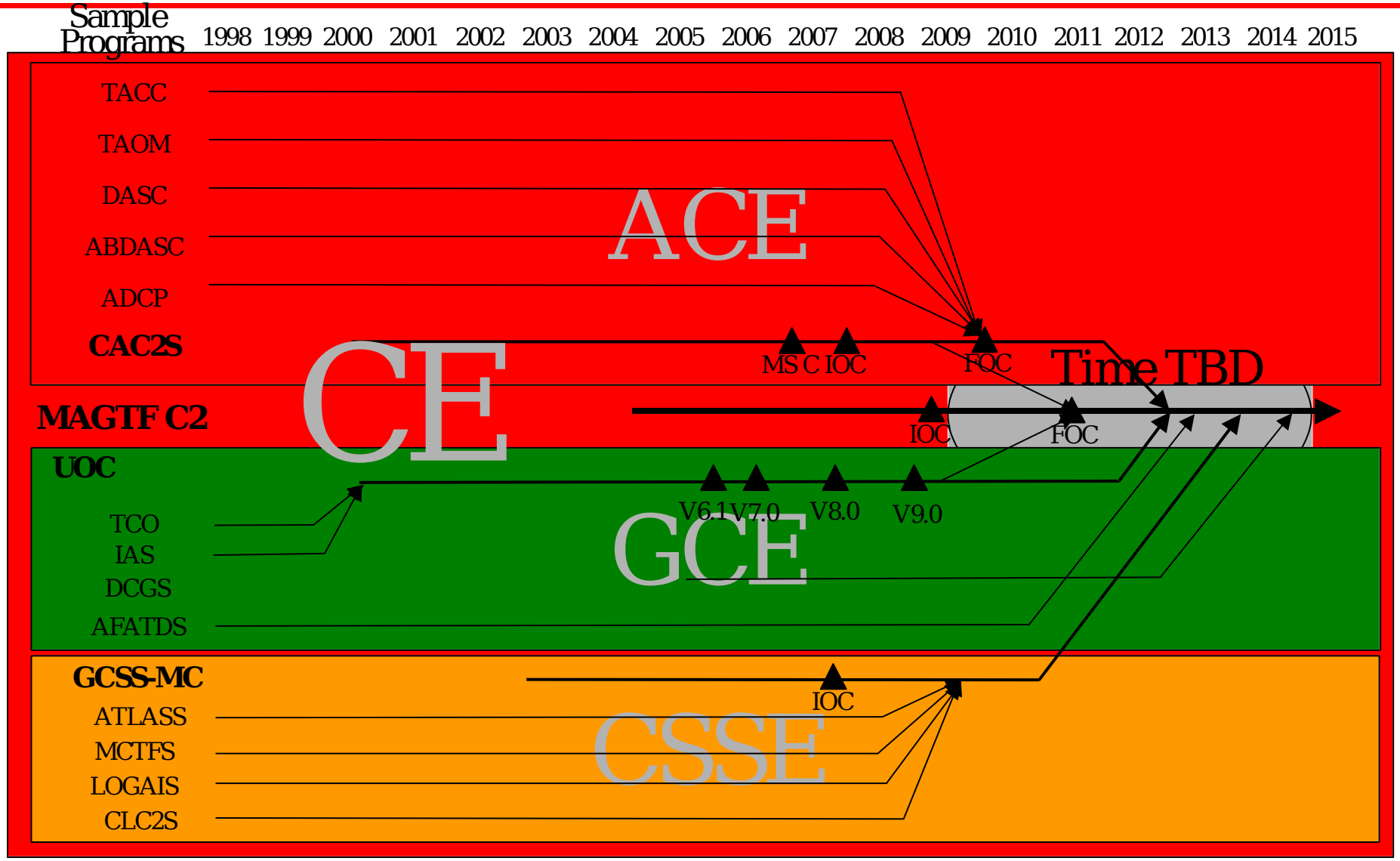


If you don't understand this, you've never met a Marine....

MAGTF End to End Capability Assessment

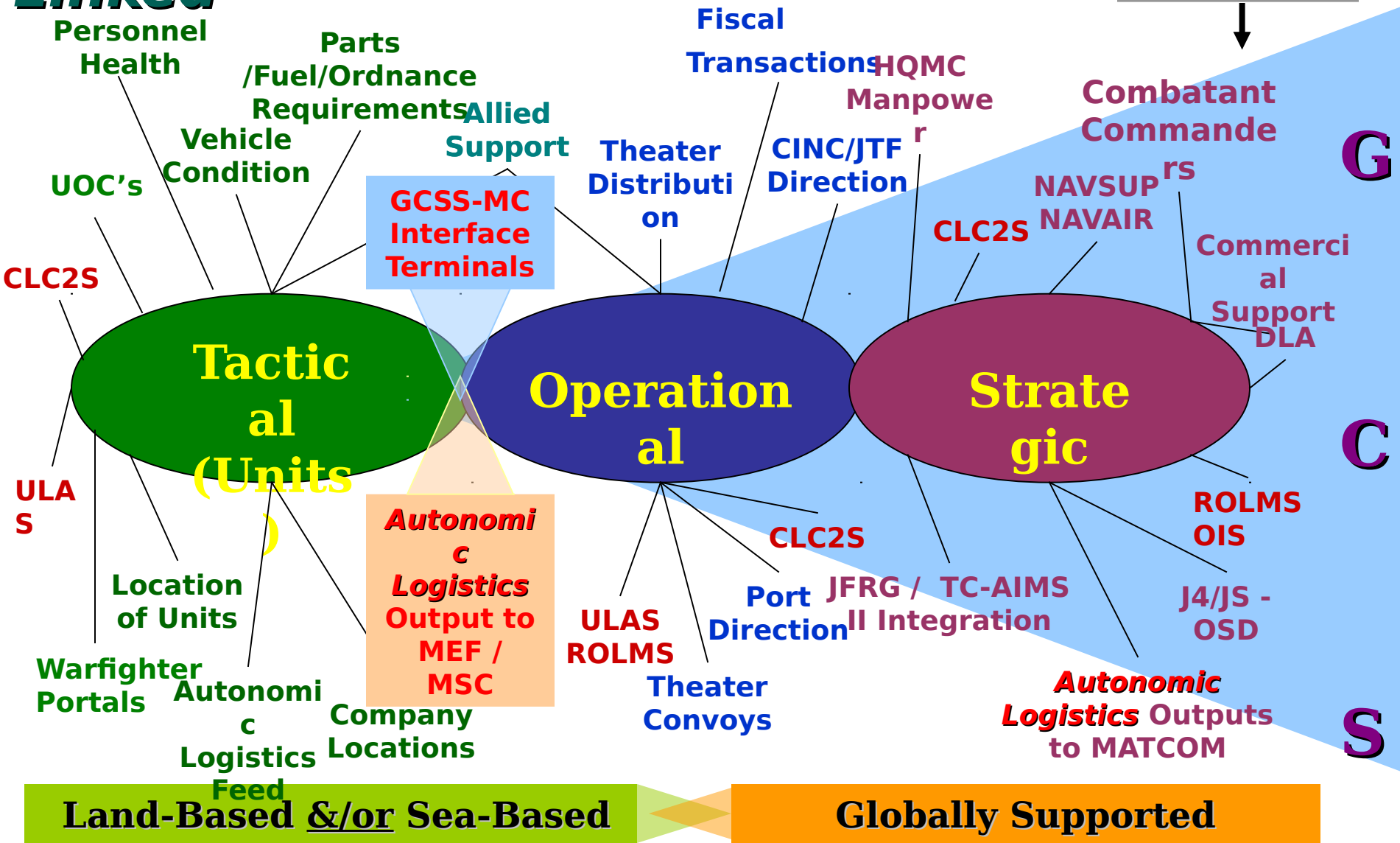


Notional MAGTF C2 Common Software Pedigree



MAGTF Log C2 -- Tactically Focused ...Operationally & Strategically Linked

DATA PIPE EXPANSION



Future Software/Systems Direction

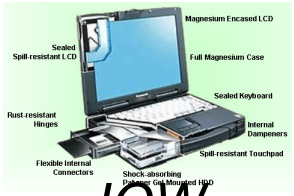
Log

GCCS

IOS (V1/V2)

AFATDS

TBMCS



IOW

LC2	Track Plot	Intel Office	EMT	ATO	ADOCS like Mgrs

C2PC/Tactical COP Workstation

Gateway Data Distribution

ENM

IOW

M-DACT

D-DACT

TLDHS

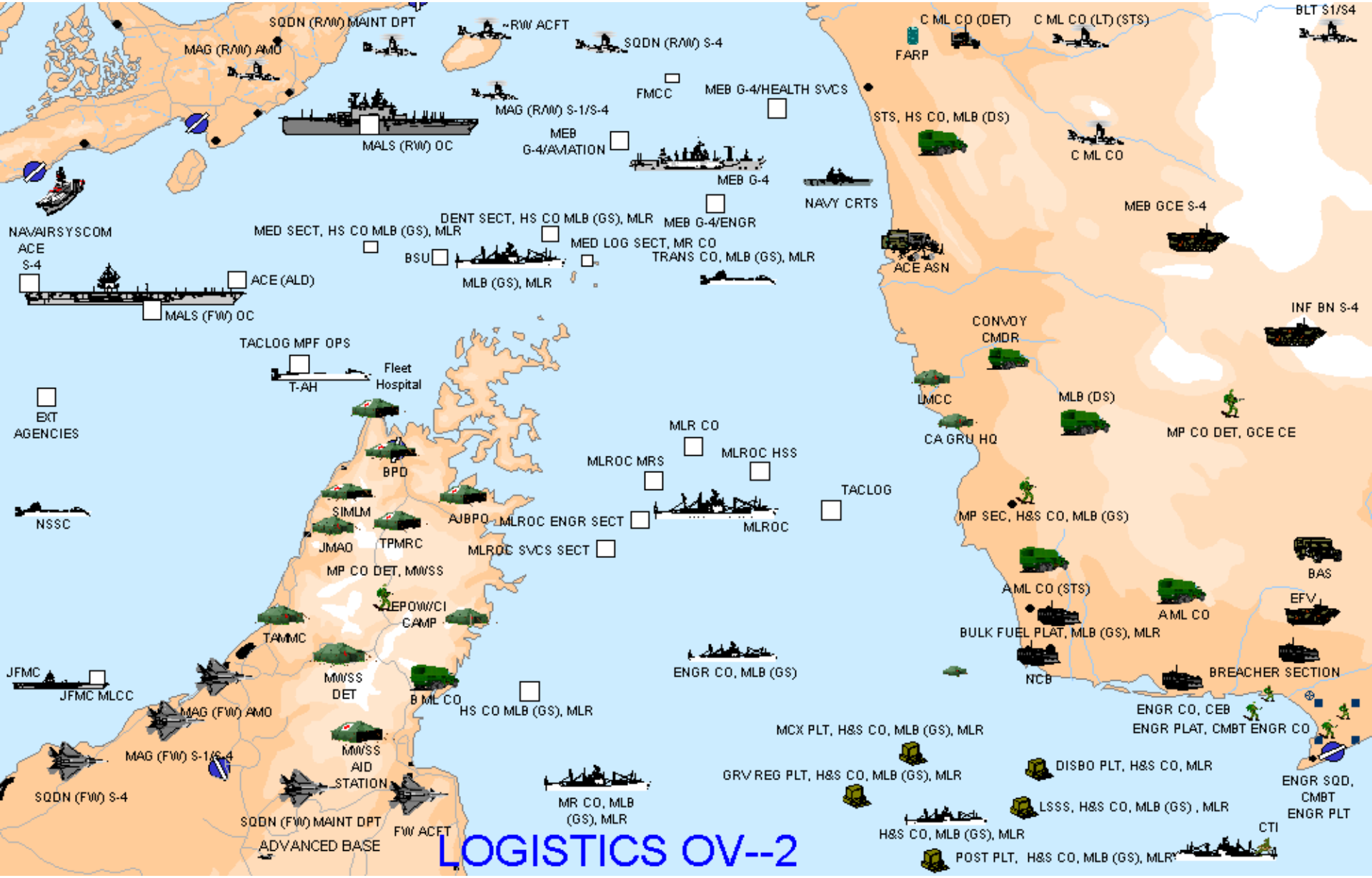
Unix Servers at Higher Echelons – "Back room Systems". Fits UOC model

Common Hardware – more application focused

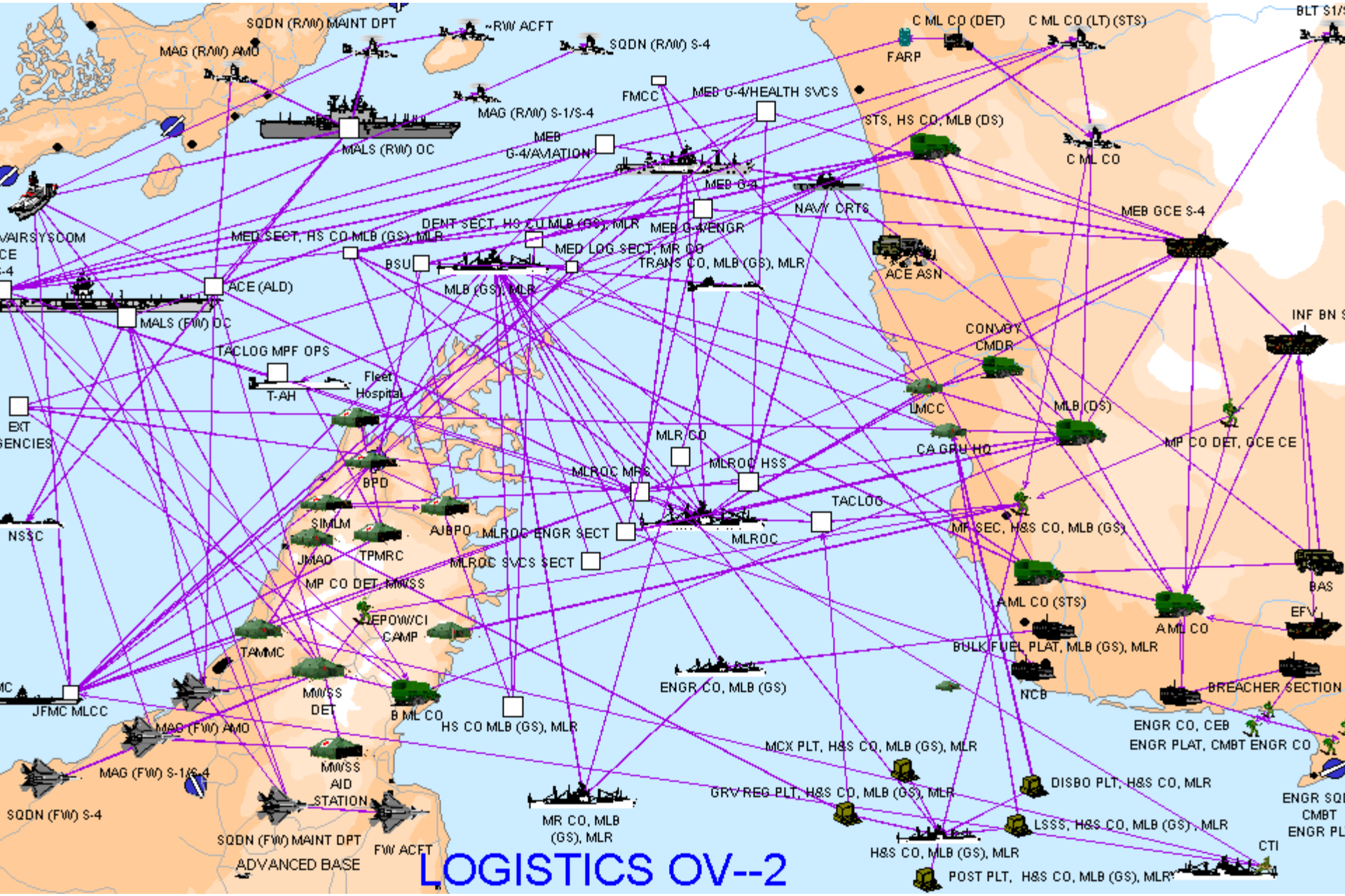
Apps based on C2PC/Tactical COP Workstation – geared to tactical user

Data Linking at Workstation Level- Common picture

Gateway Distribution is basis for passing

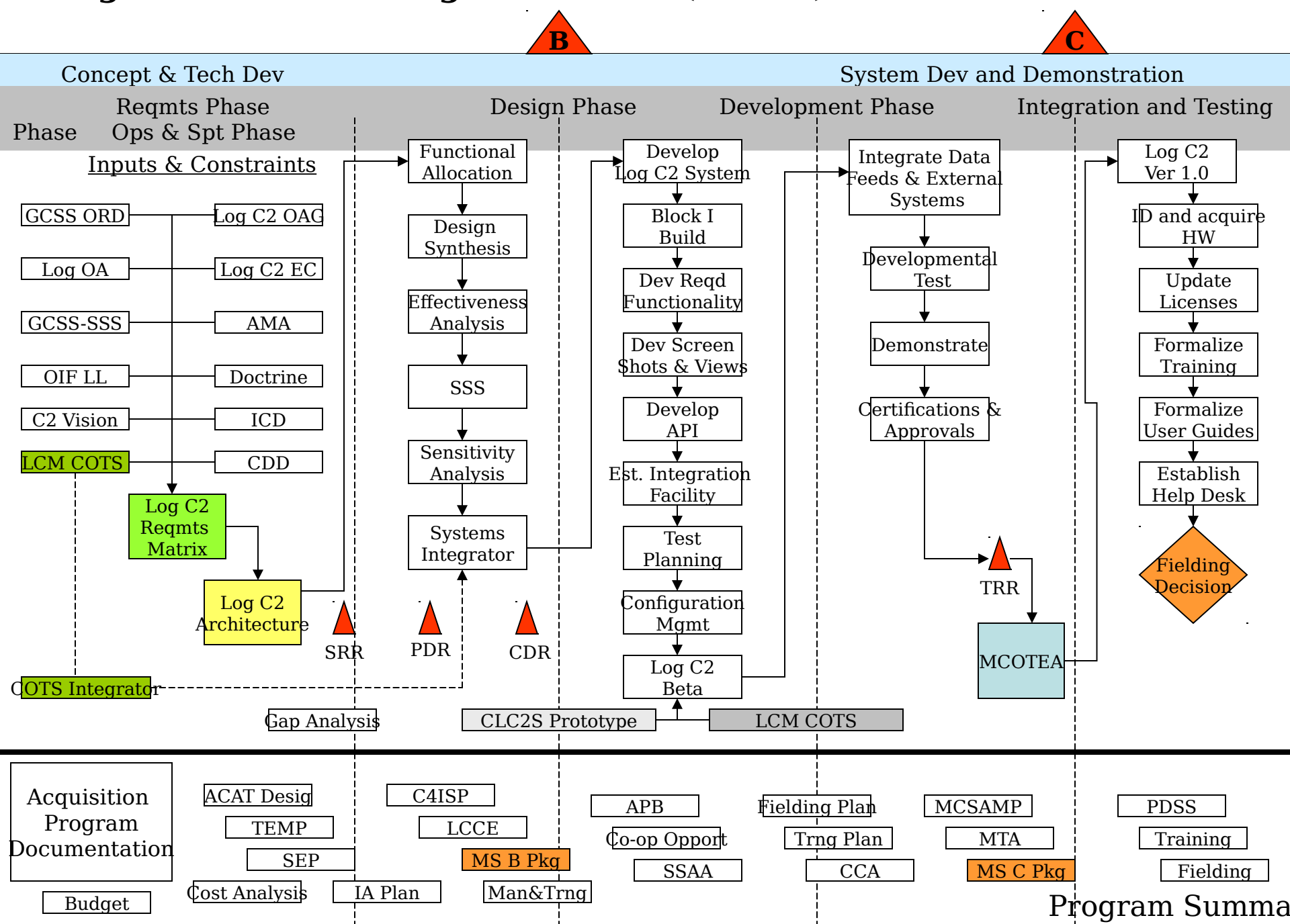


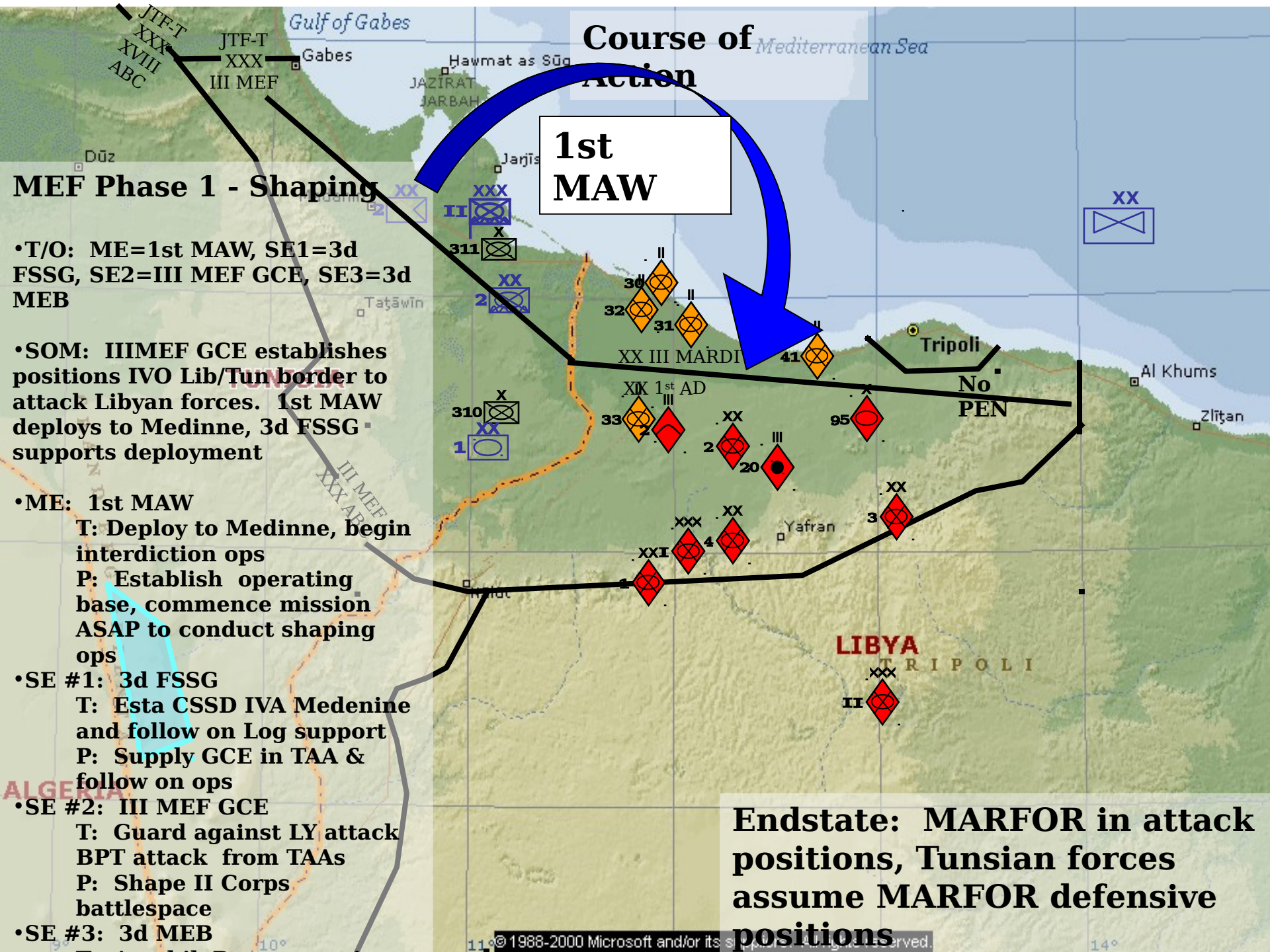
LOGISTICS OV--2



LOGISTICS OV--2

Log C2 GCSS-MC Program Phases (View 2)




Course of Action
1st MAW
MEF Phase 1 - Shaping
•T/O: ME=1st MAW, SE1=3d FSSG, SE2=III MEF GCE, SE3=3d MEB
•SOM: IIIMEF GCE establishes positions IVO Lib/Tun border to attack Libyan forces. 1st MAW deploys to Medinne, 3d FSSG supports deployment
•ME: 1st MAW
T: Deploy to Medinne, begin interdiction ops
P: Establish operating base, commence mission ASAP to conduct shaping ops
•SE #1: 3d FSSG
T: Esta CSSD IVA Medenine and follow on Log support
P: Supply GCE in TAA & follow on ops
•SE #2: III MEF GCE
T: Guard against LY attack BPT attack from TAAs
P: Shape II Corps battlespace
•SE #3: 3d MEB
Endstate: MARFOR in attack positions, Tunsian forces assume MARFOR defensive positions
JTF-T XXX XVIII ABC
JTF-T XXX III MEF
Gulf of Gabes
Mediterranean Sea
Gabes
Hawmat as Sūq
JAZIRAT JARBAH
Dūz
Jarjīs
Tataouine
Taţāwīn
XX III MARDI
XX 1st AD
No PEN
Tripoli
Al Khums
Zlīţan
Yafran
LIBYA
TRIPOLI
TUNISIA
ALGERIA
III MEF XXX AB
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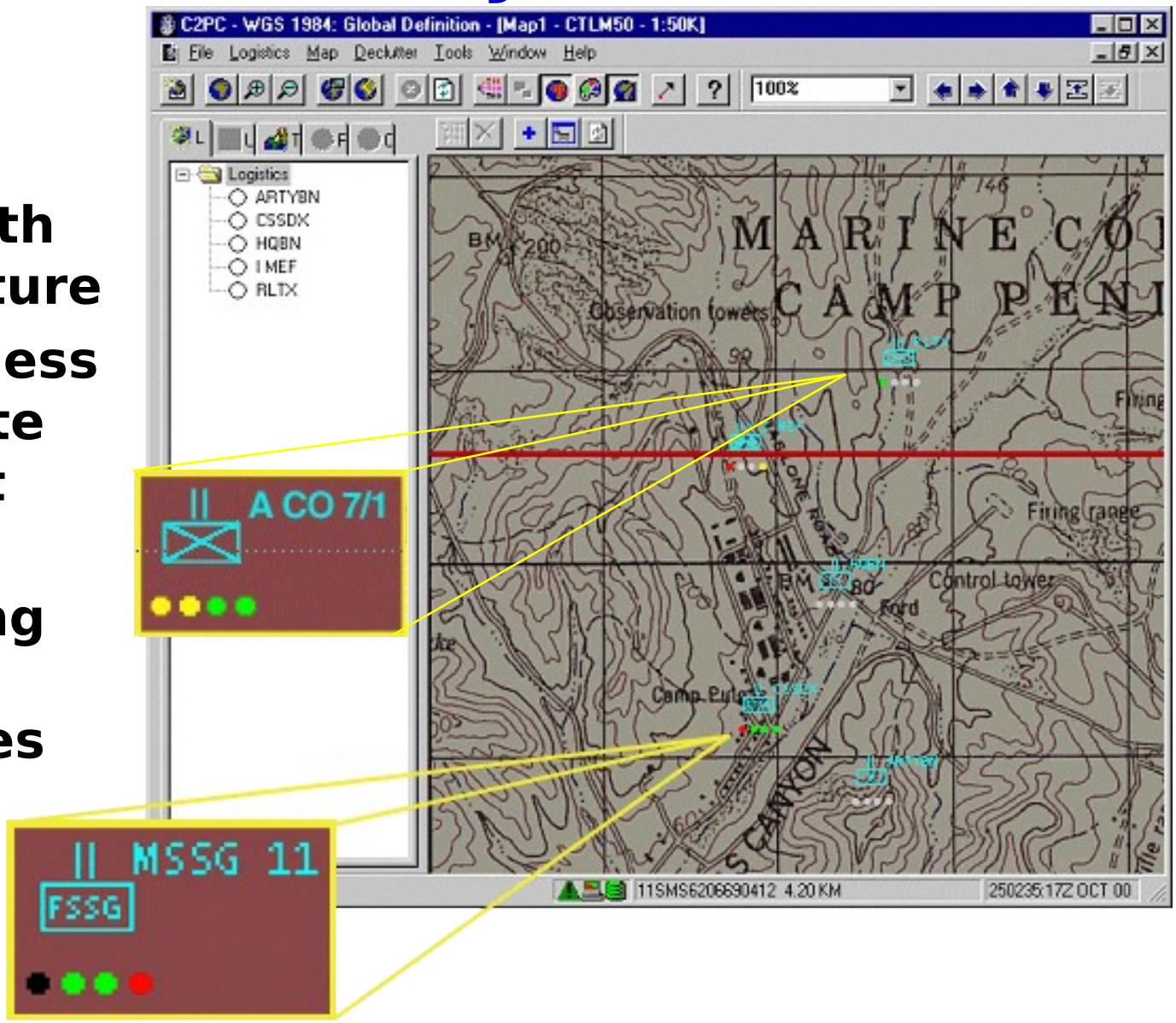
Situational Awareness: C2PC Injector

- **Integrates logistics visibility with tactical picture**
- **Unit Readiness current state assessment**
- **Map-based CSS planning by drawing support lines**



Back-up Slide

- Purpose of the Presentation is to provide CSSE Advocacy Board with situational awareness toward Logistics Command and Control plan, focus, and on-going efforts in the Marine Corps and how relates to Logistics Modernization.
- 1. High level view of Marine Corps C2 Harmonization efforts - Emphasizing the logistics input/ coordination.
  2. Map across the below Command and Control tiers provided by MCCDC C2 IPT, Log C2 efforts on-going and to be accomplished that will facilitate Command and Control for logistics units supporting the MAGTF.
- <<...OLE_Obj...>>
- 3. Emphasis on capabilities being test / evaluated is the bridge to GCSS-MC which will house the family of logistics systems.
- 4. Provide breakdown of efforts from the MEFs/ SE and how they support LOG C2 as we test, refine, and validate concepts with HQMC I&L managing effort (Efforts can be traced to the above tiers of Command and Control provided by MCCDC C2 IPT.
- 5. PM GCSS-MC (potentially Major Harrington) provide a spend plan update on how funds supporting OIF II/III events (i.e. VSAT/CAISI).
- 6. Questions or comments.